

Pediatric Emergency Medicine App

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PROBLEM

Medical staff do not have an easy to access source of reliable information for pediatric emergencies or to communicate with other professionals in the field.

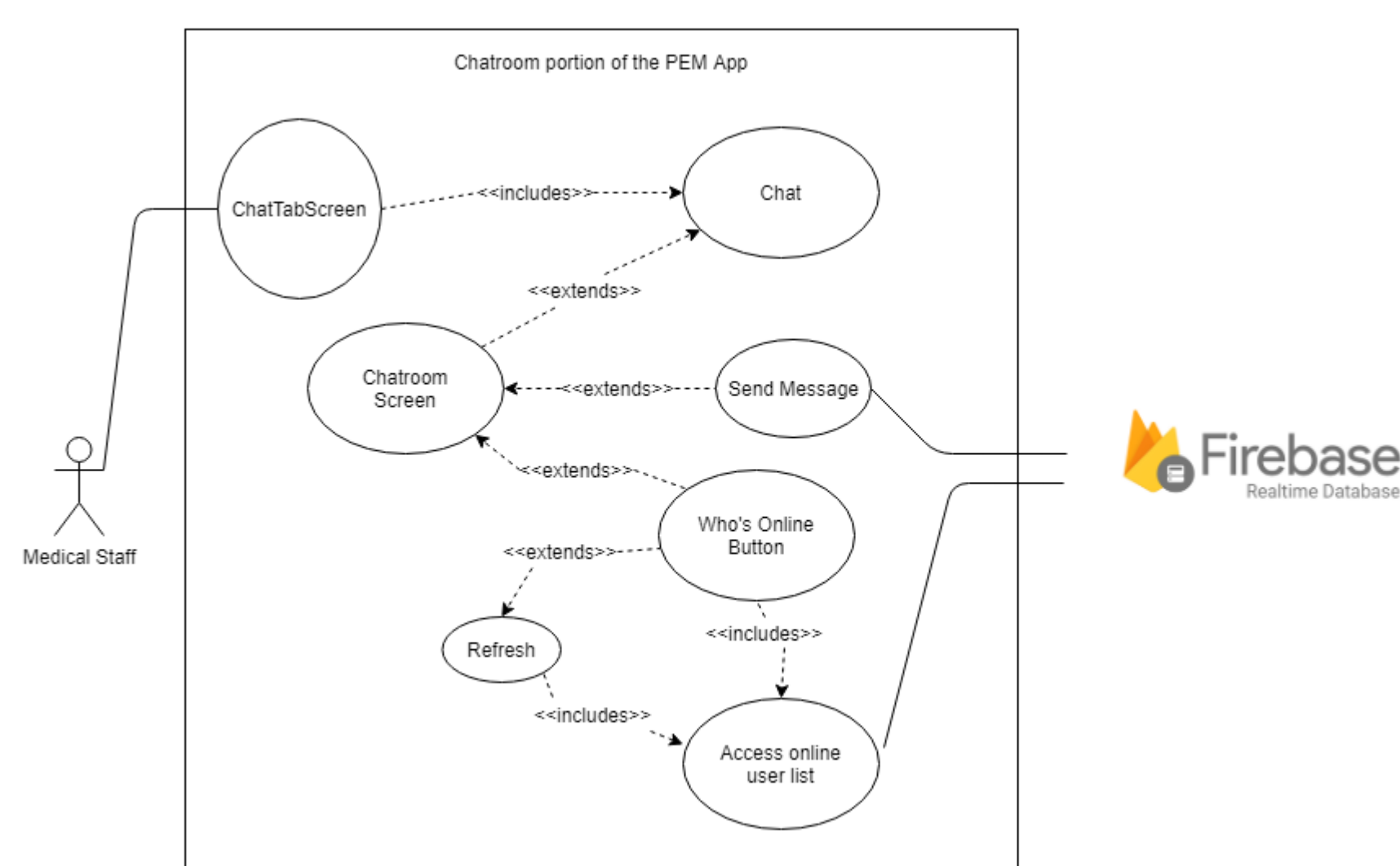
CURRENT SYSTEM

This is the second revision of the PEM App, and as such, significant improvements have been made over the first revision. Including upgrading the way the chat is seen, data persistence and profile integration.

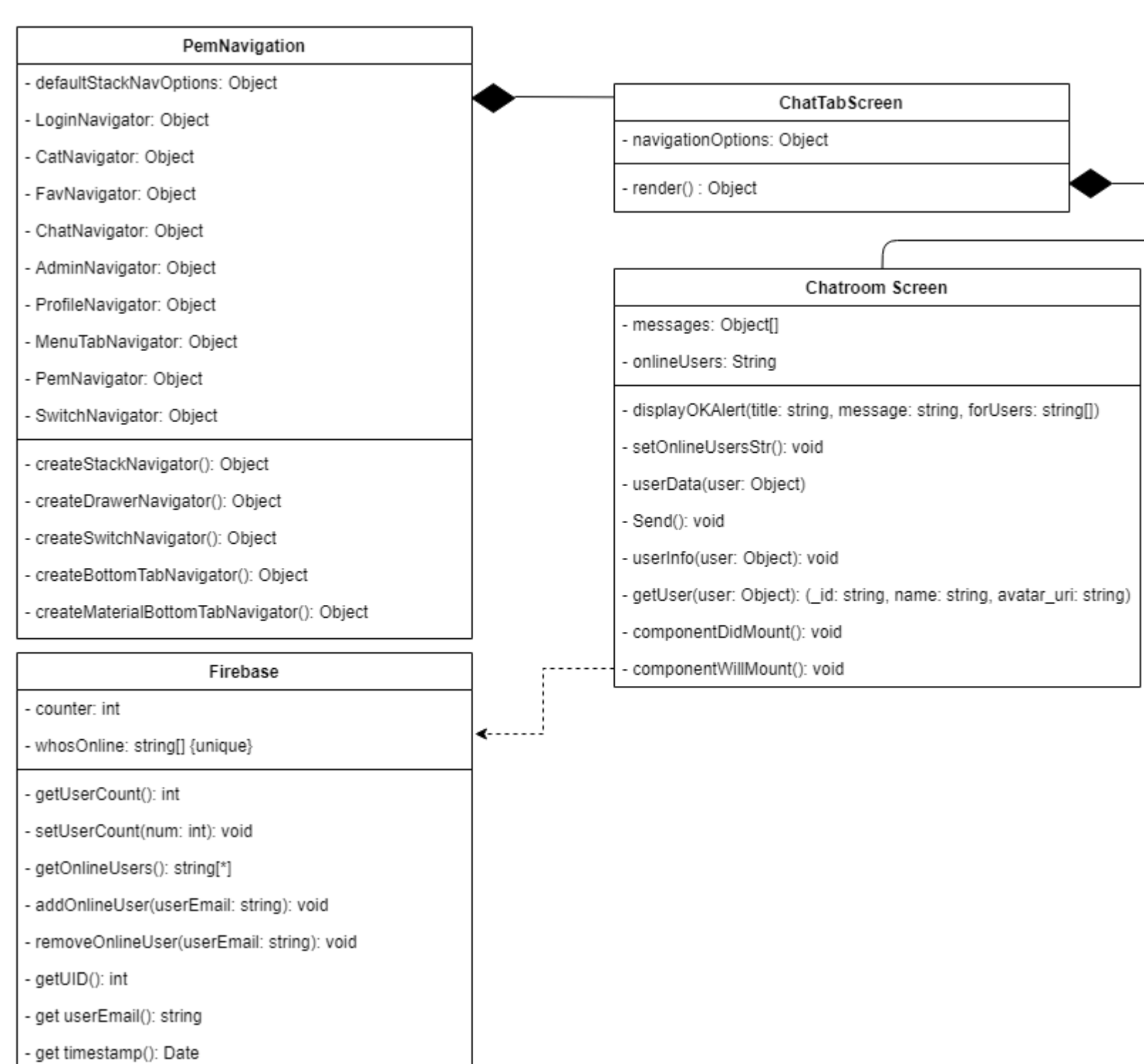
REQUIREMENTS

- Users can click on a user's message to see their profile.
- Messages now stay in the chat for other users to see after they log out.
- Chats have a familiar look so that users are comfortable using the app right away.

SYSTEM DESIGN



OBJECT DESIGN

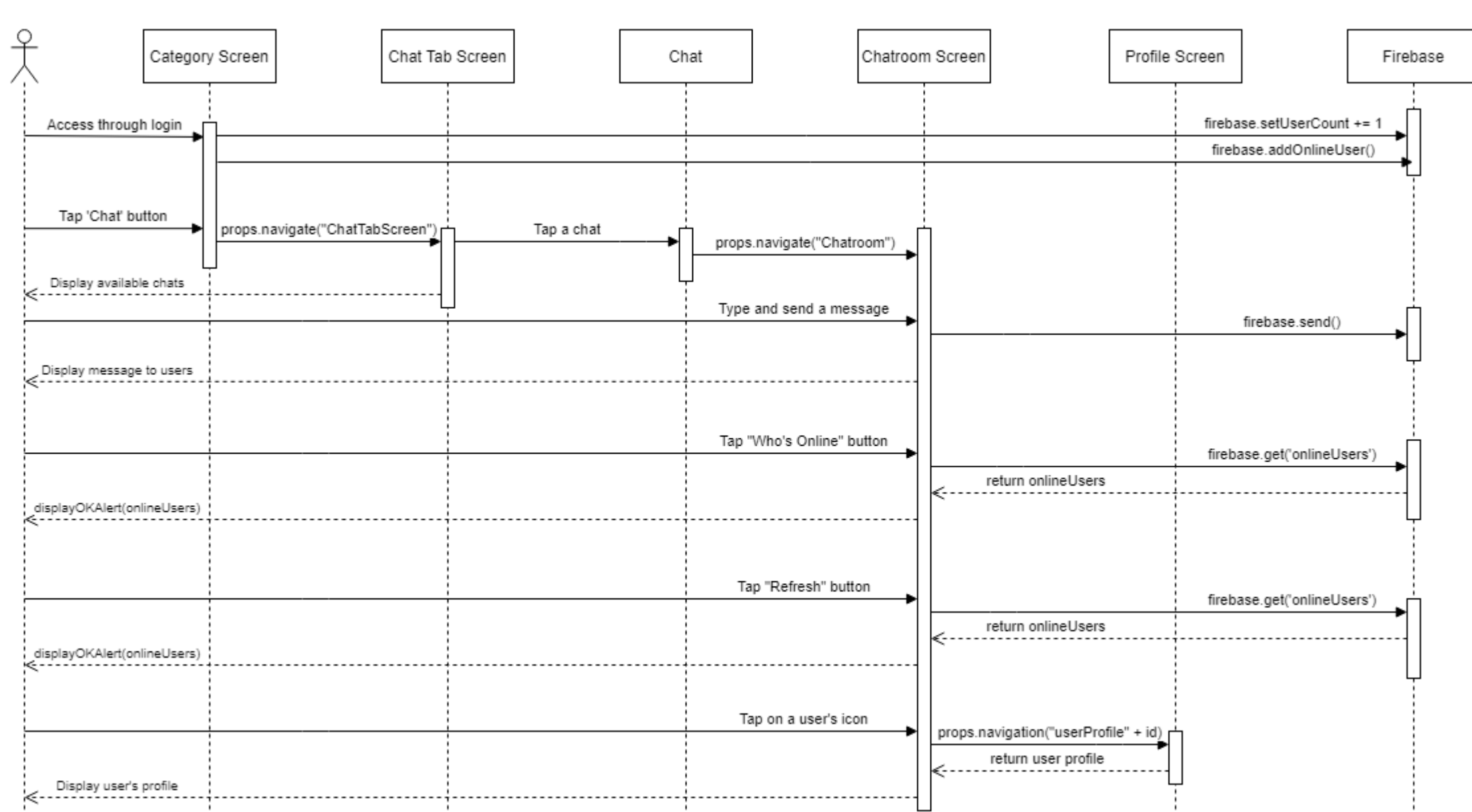


IMPLEMENTATION

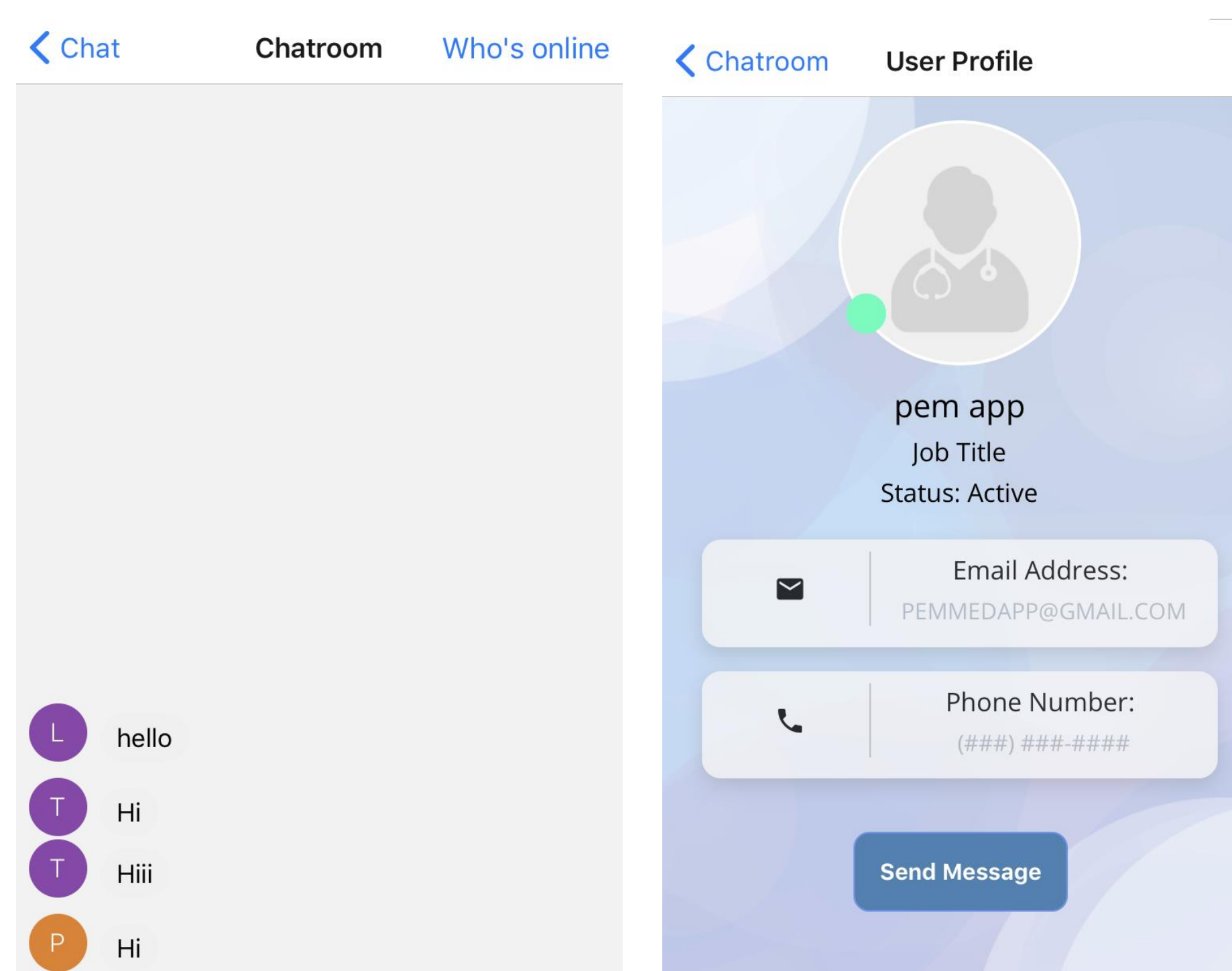
Development:



Testing:

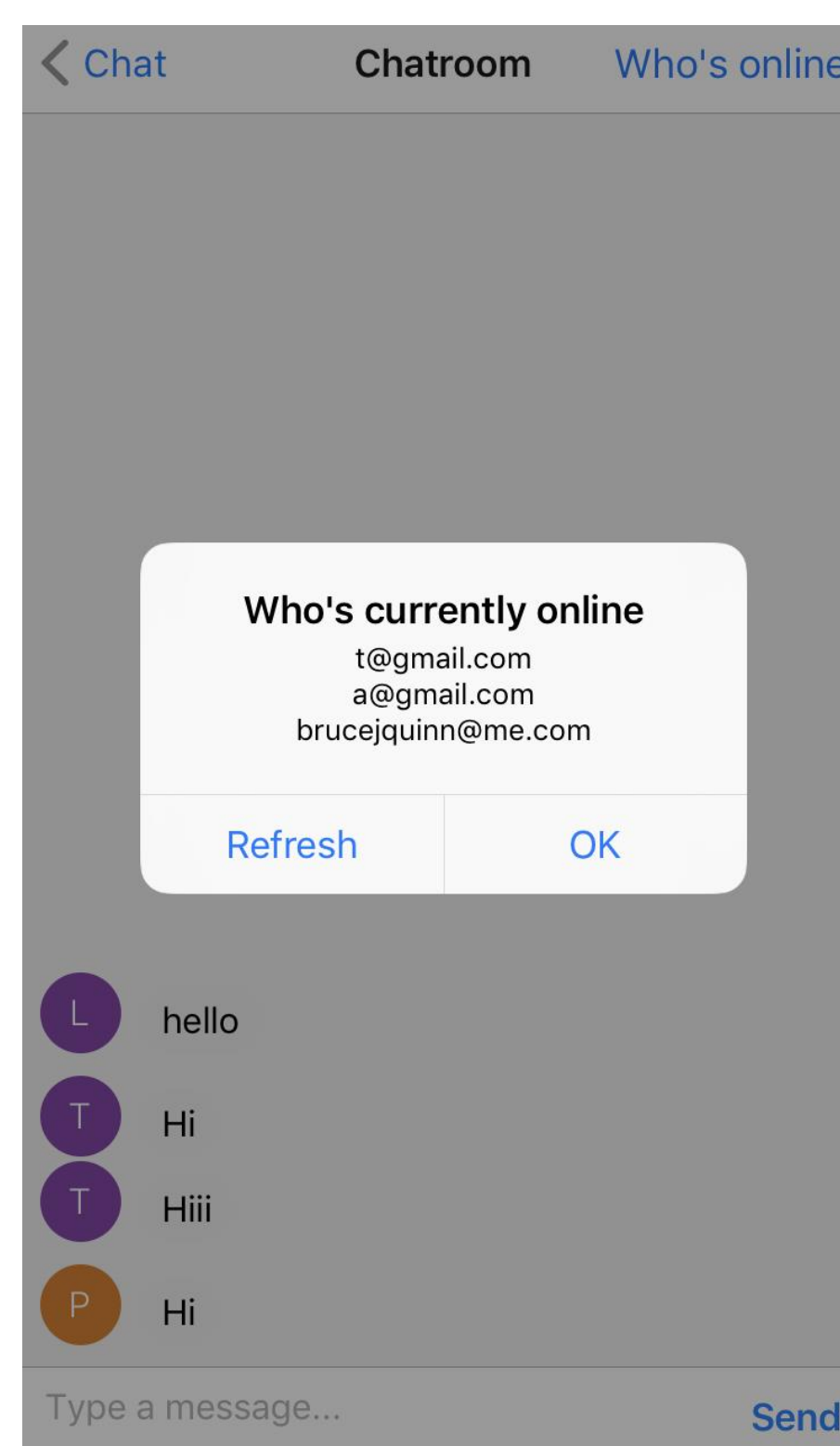


SCREENSHOTS



Sample chatroom with several user's messages being displayed.

Another user's profile as seen when clicked by a user in the chat.



Display the current online users in the chat.

VERIFICATION

- Manual testing was done for all features using an iPhone 8 as well as an emulated Google Pixel 2
- Testing of the chat message permanence was done using a wide array of emulated Android devices as well as an iPhone 8 and an iPhone 7.

SUMMARY

As this is the second version of the app, significant improvements have been made. We hope that future Capstone developers will continue to take the app in the right direction and provide a potentially life-saving application to most smartphones on the market.

Acknowledgement

I want to thank Dr. Jean Hannan as well as Dr. Bruce Quinn for their constant support and guidance throughout the development of the second version of the app.